



## SPRAY STATION 3000

### THE COMPLETE PAINT SPRAYING KIT



#### OPERATING INSTRUCTIONS

Thank you for purchasing the Earlex HVLP Spray Kit. This is a highly versatile spray kit and can be used on a variety of applications.

**BEFORE USE - PLEASE READ THE SAFETY &  
OPERATING INSTRUCTIONS.  
Please retain for future reference**



## SAFETY OPERATING INSTRUCTIONS

### PLEASE READ BEFORE USE

- NEVER under any circumstances aim the nozzle at another person or animal. In the event of injury occurring seek expert medical advice immediately.
- The spray gun must only be used with paints and solvents that have a suitable flash point for spraying. If in doubt consult paint or solvent manufacturer's data.
- Always ensure there is adequate ventilation when spraying.
- NEVER spray near a naked flame, including appliance pilot flame.
- NEVER smoke whilst spraying.
- NEVER allow children to operate or play with the spray gun or motor unit.
- Always read the paint manufacturer's thinning instructions before using.
- Always disconnect unit from mains supply when refilling the paint container.
- Before cleaning, always disconnect unit from the mains supply.
- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
- Always wear the correct protective face mask when spraying. We would also recommend the use of gloves, goggles, ear protection and overalls.
- After every use ensure that you clean your spray gun thoroughly and grease the gland seal.
- Use only genuine manufacturer replacement parts.

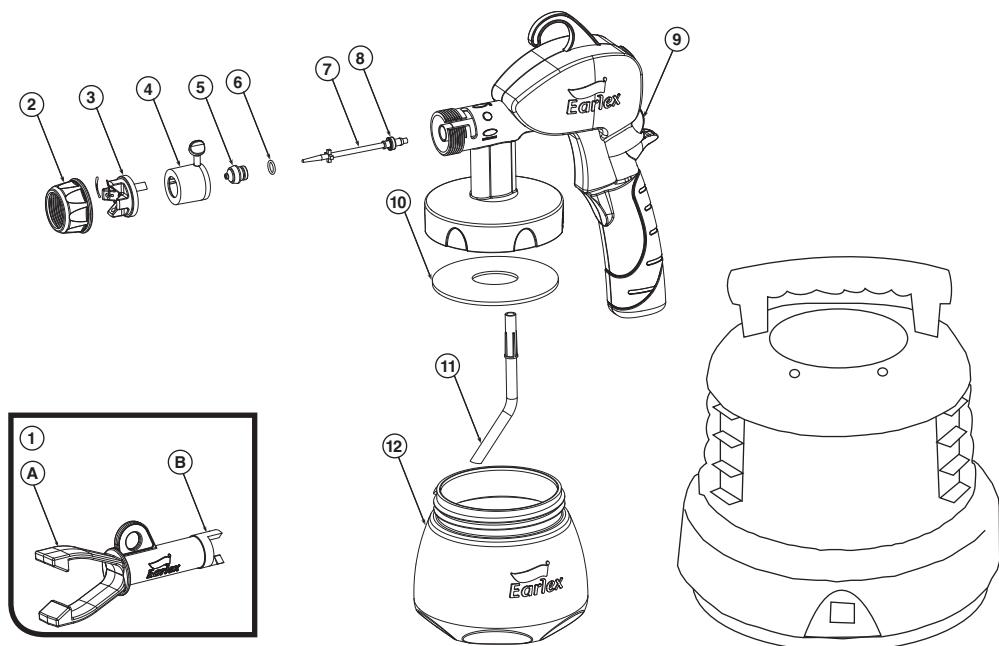
**WARNING:** The substances used with this spray gun (paint, thinners etc) may contain hazardous, harmful, explosive or corrosive materials. **ALWAYS COMPLY WITH THE SAFETY INSTRUCTIONS ISSUED WITH THIS PRODUCT AND THE MATERIAL BEING USED.**

A- Weighted sound pressure level: 85dB (A)

Only use the unit as detailed in these instructions.

**IF THERE IS A PROBLEM WITH THIS UNIT DO NOT RETURN TO STORE.  
PLEASE CONTACT EARLEX LTD ON TEL: 01483 454666.**

## EXPLODED PARTS VIEW



### PARTS LIST

**Key Description**

- 01. Needle and fluid tip tool
- 02. Air cap ring
- 03. Air cap
- 04. Spray direction plate
- 05. Fluid tip 2.0mm
- 06. Fluid tip O-Ring
- 07. Fluid needle 2.0mm

**Part No.**

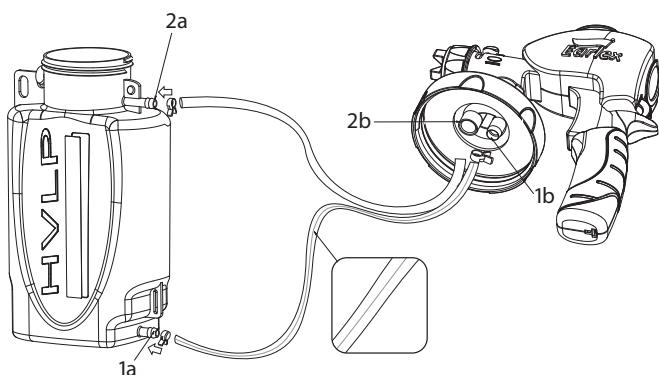
- V0018
- V0001
- V0002
- V0003
- V0004
- V0005
- V0006

**Key Description**

- 08. Lip seal - Fluid needle
- 09. Paint flow adjuster
- 10. Paint container seal
- 11. Pick-up tube
- 12. Paint container
- 13. Viscosity Cup
- 14. Filter (not shown)

**Part No.**

- V0007
- V0011
- L0682
- V0012
- V0014
- SG243
- L0058


**Set Up**

Connect the striped tube to the bottom of the Spray Pack (Fig.1, 1a) and the other end to the paint pick up (Fig.1, 1b) of the Spray Gun, and connect the unstriped tube to the top of the SprayPack (Fig.1, 2a) and the other end to the air outlet on the Spray Gun (Fig.1, 2b).

**HINT:** Running the end of the tubes under warm water will ease the fitting onto the Spray Gun and Spray Pack.

## INTRODUCTION

HVLP stands for High Volume, Low Pressure. This is a type of spraying that allows you to spray extremely accurately but without all the overspray that occurs with the high pressure tank type equipment. In fact, in some parts of the world the high pressure systems are banned by law on environmental grounds and HVLP type systems are the only alternative for professional type spraying. This gun is extremely easy to use, very safe and reduces the amount of paint used.

**PLEASE NOTE:** We have done all we can to ensure that used correctly and according to these instructions, this spray gun will give long and trouble free life. We accept no responsibility for damage caused by the use of incorrect or unsuitable substances, paints or fluids which have not been thinned correctly or are unsuitable for the surfaces to which they are applied, health hazards arising from lack of ventilation when working in confined spaces or failure of the equipment due to inadequate cleaning of the components after use. If in doubt, always test a small inconspicuous area first. Always read the paint manufacturer's instructions first. Neither our guarantee nor the above statement affects your statutory rights.

## IMPORTANT SELECTING PAINT

This is a highly versatile spray kit that can be used with several different spray mediums including varnishes, wood preservatives, enamels, oil and water based paints and automotive paints. However some materials cannot be sprayed so please check the recommendation of the manufacturer before buying the paint. If a material refers to brush application only then it usually cannot be sprayed.

**THIS UNIT CANNOT BE USED FOR TEXTURED PAINTS. USE OF THESE MATERIALS WILL CAUSE PREMATURE WEAR, WHICH WILL VOID THE GUARANTEE.**

**TO OBTAIN THE BEST RESULTS FROM YOUR SPRAY KIT PLEASE READ THE INSTRUCTIONS CAREFULLY BEFORE USE.**

## PREPARATION

Preparation of the surface and thinning of the paint are the two most important areas to be concerned with to obtain the best results from your spray kit. Ensure all surfaces are free from dust, dirt, rust and grease. If necessary rub down with sandpaper, or similar. Masking of areas is important to ensure you do not spray those areas you wish to remain untouched.

## THINNING

Your spray kit is supplied with a viscosity cup. Viscosity is a technical term used to indicate if a product is very thin or very thick. If thin, the viscosity is said to be low, while if very thick the viscosity is said to be high. Viscosity is measured in seconds. In order to spray some materials they need to be "thinned" (diluted). Thinning is very important when spraying. Most paints etc are supplied ready for brush application and *may need to be thinned (diluted)* for spraying purposes.

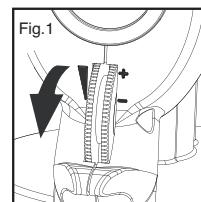
Follow the manufacturers guide for thinning in conjunction with a spray gun. If in doubt please contact the manufacturers of the paint. The viscosity cup supplied will help you determine the correct thickness of the paint. Paint is "thinned" by adding the substance which the paint is based upon. If a water based paint then water is added, if oil based then white spirit, if automotive paint then an automotive paint thinner is added. As some paints, wood preservatives and other sprayable materials contain particles that have differing qualities, please ensure that when filling the paint container of the spray gun, that the paint is filtered through either a funnel with a filter on it or through nylon tights or stockings. This will ensure that no large particles enter the paint container, so preventing blockages and providing you with trouble free spraying. Ensure that a face mask, gloves, ear protection and goggles are worn at all times when spraying.

## IDEAL VISCOSITY

<b>Water based paints and emulsions</b>	25 - 60 seconds
<b>Oil based paints</b>	45 - 50 seconds
<b>Wood preservatives</b>	No dilution
<b>Primers</b>	45 - 50 seconds
<b>Varnishes</b>	No dilution
<b>Aluminium paints</b>	No dilution
<b>Wood stains</b>	No dilution
<b>Automotive Paint</b>	Manufacturers ratio

This spray gun can be used with products having a viscosity ranging from 25 to 60 seconds. Dip the viscosity cup into the material and fill up. Time how long it takes for the viscosity cup to empty (Fig 1). Using the above chart (or manufacturer's instructions) as a guide, determine if the material requires further thinning, if so then thin accordingly. If the paint requires thinning, start with a 10% dilution of the paint. To do this, fill a 1 litre container with the required paint. The viscosity cup supplied with the unit holds 1/10 of a litre, block the hole in the viscosity cup and fill up with the required thinner. Add the thinner to the paint and stir, measure the viscosity using the recommended viscosity chart above. If the paint requires further thinning, dilute the paint by another 5% (5% will be equal to half a viscosity cup) with the required thinner and measure the viscosity, if the paint is not at its recommended viscosity, repeat the above step.

**Note:** Some paints are outside the ranges listed above. Please contact our helpline for further information.



## OPERATION

Fill the paint container with the material to be sprayed. DO NOT OVERFILL. Push the fluid tube firmly into the base of the gun body. Screw the container onto the gun body tightly.

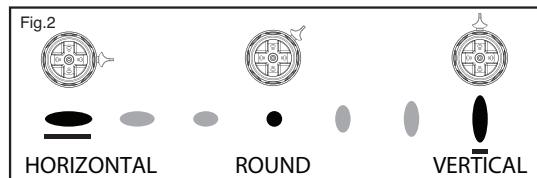
Place the unit onto a clean floor space, free from any loose debris, liquids or dust sheets that could block the motor inlet. Unwind the hose from the main housing and connect to the back of the gun. Uncoil the mains cable from the base of the unit and plug in.

**ALWAYS KEEP THE MOTOR UNIT AS FAR AWAY FROM THE SPRAYING AREA AS POSSIBLE TO PREVENT PAINT CONTAMINATING THE MOTOR. MASK ANY AREA YOU DO NOT WISH TO SPRAY.**

Once you have set up ready to spray, switch on the unit. No paint will be sprayed from the gun until the trigger on the spray gun is pulled. Before starting any work on spraying actual objects we suggest you spend a small amount of time practicing on cardboard or newspaper until you have got used to how the gun works.

## SPRAY PATTERNS

- 1) To achieve a horizontal strip adjust the spray direction plate (Fig.2) to the vertical position then pull the Trigger and move your arm across to the right.
- 2) When you get to the end of the line, release the trigger for a moment and then apply the product in the opposite direction just beneath the line you have sprayed.
- 3) Next, to achieve a vertical strip (Fig.2) adjust the spray direction plate to the horizontal position then pull the trigger and move your arm up and down over the horizontal strips you just have sprayed.



Through gradual movement of the spray direction plate (4) between horizontal, vertical and round spray pattern you can vary the width of the pattern (Fig.2).

## PAINT VOLUME

The volume of paint sprayed is easily adjustable (Fig.3). Completely close Fluid Adjustment Screw (10) by turning this clockwise as far as it will go. Whilst pulling the trigger, begin turning the Fluid Adjustment Screw anti-clockwise until the volume of paint you require is obtained.

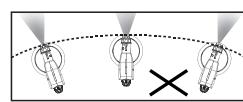
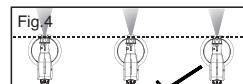
If the paint spray is too wide or contains too much paint turn the adjustment screw clockwise again. Once the correct spray pattern is obtained you are able to commence spraying.



Fig.3

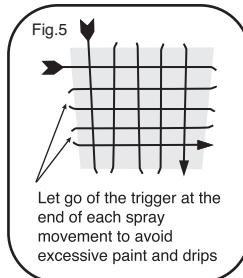
## SPRAYING TECHNIQUE

- To obtain the best results always keep your spray gun level and spray equally from side to side or up or down 25-30cm (10"-12") from the surface. Avoid spraying at an angle as this will lead to runs on the surface (Fig.4).
- Let your arm control the left to right movement rather than your wrist as this will aid even paint distribution over the whole area (Fig.4)
- Do not tip the sprayer to more than 45° angle.



## HELPFUL HINTS

- Evenly control the speed of movement of the Spray Gun. A fast speed will give a thin coat and a slow speed will give a heavy coat.
- Only apply one coat at a time. If a further coat is required follow the paint manufacturer's instructions for drying times.
- If spraying small areas or objects keep the output setting low as this will avoid excessive use of paints and will minimise overspray.
- When spraying large areas or objects, it is best to use a criss-cross pattern, either from left to right then up or down or vice-versa. This will ensure maximum coverage (Fig. 5).
- Avoid stopping and starting when spraying as this can lead to too much or not enough material on a surface.
- To ensure edges are covered, commence spraying just to the side of area being sprayed
- CLEAN SPRAYER AFTER EVERY USE (SEE CLEANING INSTRUCTIONS)**



## CLEANING INSTRUCTIONS

**THE SPRAY GUN MUST BE THOROUGHLY CLEANED IMMEDIATELY AFTER USE. IF THE PAINT DRIES INSIDE THE GUN, CLEANING WILL BECOME MUCH MORE DIFFICULT AND MAY RENDER THE GUN INOPERABLE. THIS IS NOT COVERED BY GUARANTEE.**

### SPRAY GUN

- Remove the paint container (12).
- Pour any leftover paint into its container so that it can be used for the future. Pull the trigger to allow paint to run out of the pick-up tube (11).
- Pour a quantity of the respective thinner into container, shake the spray gun lightly, reassemble the Spray Gun, then spray this liquid though the spray gun. Repeat this until the thinner being sprayed is coming through with no traces of paint.
- Clean any traces of paint off the outside of the spray gun.
- Clean the paint container seal (10).

### FLUID TIP & NEEDLE

- Unscrew Air Cap Ring (2).
- Remove the Air Cap (3).
- Remove the Spray Direction Plate (4).
- Using the Needle and Fluid Tip Tool - pincer end A (1) remove the Fluid Tip (5).
- Insert the Needle and Fluid Tip end B (1) into the inner tube and unscrew the Needle anticlockwise, then pull to release the Needle.
- Place all of these items into a container and clean, then using a brush and the respective thinners.
- Clean the inside of the body of the Spray Gun.
- Thoroughly dry all parts before reassembling.
- Reassemble parts in reverse order.
- Ensure the Air Cap Ring (2) is fully tightened and the Fluid Tip is pushed into place so that the Spray Gun Needle will shut off.

NB: Ensure the Spray Direction Plate is free to move. If necessary loosen the Air Cap Ring (2) slightly.

It is recommended fitting the Fluid Tip (4) prior to the Fluid Needle

**NEVER DISPOSE OF PAINTS OR SOLVENTS INTO DRAINS. CONTACT YOUR LOCAL COUNCIL TO ARRANGE COLLECTION OR FOR DETAILS OF NEAREST REGISTERED DISPOSAL SITE.**

## TURBINE UNIT

The turbine unit only requires minimal maintenance

- Ensure its filter element is kept clean at all times.  
This is the filter underneath the main body. Disconnect the unit from the mains, turn on side and remove foam material. This can be washed out if necessary and replace when dry. From time to time this filter will need replacing (part no.L0058).
- The turbine bearings are sealed and lubricated for life. There is no maintenance or adjustment required.
- Clean the turbine and hose unit with a damp cloth after use.
- The hose is stored by locating into the clips around the main body
- The mains lead is stored by wrapping around the base of the unit and locating the plug in the space at the back of the unit.
- The compartment on the top of the unit can be used for the storage of accessories.

## TROUBLE SHOOTING

PROBLEM	CAUSE	ACTION REQUIRED
The paint drips on to item being painted	Paint too diluted	Add undiluted material
	Paint volume too high	Reduce the paint flow by turning Fluid Adjusting Screw (10)
	Moving too slowly	Increase speed of application
	Spray Gun trigger being held for too long	Release Trigger earlier
	Spray Gun too close	Increase the distance between Spray Gun and workpiece
Paint is thin or irregular	Paint too diluted	Add undiluted material
	Paint volume too low	Increase the paint flow by turning Fluid Adjusting Screw (10)
	Moving too fast	Reduce speed of application
	Spray Gun clogged	Clean the Spray Gun
	Spray Gun too far away	Reduce the distance between Spray Gun and work piece
No paint being produced	Paint too thick	Add thinner
	Gun clogged	Clean the Spray Gun
	Paint Feed Tube clogged	Clean Paint Feed Tube (13)
	Air hose split	Replace air hose
	Grainy paint	Filter the paint
	Container almost empty	Refill Container
	Spray Gun at an angle	Ensure Paint Feed Tube (13) is angled towards paint
	Air intake blocked	Check no paper or loose debris can block the air intake underneath the unit

## MAINS CONNECTION

This unit is a Class II appliance which means it is double insulated for your protection, no earthing wire is necessary.

If the supply cord is damaged, it must be replaced by Earlex Ltd or our appointed agents.

Your unit has been supplied with a mains lead with a fitted plug. This is identified by the fuse holder in the base of the plug. Please read the following safety instructions before use.

1. If the fitted plug is cut off from the mains lead then the plug must be disposed of safely.  
**NEVER** under any circumstances insert such a plug into a 13 Amp socket.
2. **NEVER** under any circumstances use the appliance or mains lead without the fuse cover fitted. This is the little cover fixed into the base of the plug to hold the fuse in place.
3. If you lose the fuse cover then please contact any electrical dealer for a replacement or ring our helpline.
4. A replacement fuse must be rated at 5 Amp. These must be manufactured and approved to BS 1362.
5. **IF IN ANY DOUBT CONTACT AN ELECTRICIAN.**

If you need to fit a plug to the mains lead, this should be fitted in accordance with the wiring instructions below, and will need to be used with a 5 Amp fuse. If in doubt consult an electrician.

If you are using an extension lead it must be rated at a minimum of 6 Amps and fully unwound. Do not operate with a lead rated at less than 6 Amps as this will cause premature failure of the motor which is not covered by the guarantee.

### Information on the disposal of waste electrical equipment known as WEEE:

Your attention is brought to new directives applicable to the disposal of this electrical equipment, where in accordance with the legislation this product must not be disposed of in your normal household waste. Instead it is your responsibility to dispose of this type of waste by handing it over to special designated collection points for recovery and recycling. This product is marked with a 'Wheelie bin' symbol with a cross on it to remind you of this action. The objective of this directive is to help conserve resources and ensure that it is recycled in a manner that protects human health and the environment. For more information about where you can drop off your waste please contact your local authority, take back facilities are free of charge.



### EC Declaration of Conformity

We declare that the unit: HV3000 conforms to: 2006/95/EC  
EN60335-1 & 2004/108/EC, EN55014-1, EN55014-2, EN61000-3-2, EN61000-3-3.

 Tim Hopper Technical Director

British Registered Design No: GB 2103413

DE Design No.40107145.6

BX Design No. 79476-02

US Design No. D468,752S

Copyright & Design Right Reserved © 2011

**EARLEX LTD. WILL ACCEPT NO RESPONSIBILITY FOR THE USE OF THIS PRODUCT IF USED FOR ANY OTHER PURPOSES THAN THOSE DETAILED HEREIN**

### GUARANTEE

This product is guaranteed for a period of 24 months against faulty manufacture and materials. It is not guaranteed for industrial or hire purposes. The guarantee does not affect your statutory rights. In the event of any problem occurring please contact us on our Helpline No between 8.30 a.m. and 17.00 p.m. Mondays to Fridays (excluding Bank Holidays) or visit our Website on [www.earlex.com](http://www.earlex.com)  
**HELPLINE No 01483 – 454666**



Earlex Ltd., Opus Park, Moorfield Road, Guildford, Surrey, GU1 1SZ.

**Tel: 01483 - 454666. Fax: 01483 - 454548**

**E.mail: [enquiries@earlex.co.uk](mailto:enquiries@earlex.co.uk) Website: [www.earlex.com](http://www.earlex.com)**

L0061 01/11